भारतीय प्रौद्योगिकी संस्थान तिरुपति

IIT
TIRUPATI

Workshop on

RESEARCH METHODOLOGY & MULTIVARIATE DATA ANALYSIS

19-23 May 2025

Department of Humanities and Social Sciences

Indian Institute of Technology Tirupati

🌐 https://hss.iittp.ac.in/

in Department of HSS - IIT Tirupati

About IIT Tirupati

Indian Institute of Technology Tirupati is the first among the third generation of IITs, announced in 2014, to have its foundation stone laid in March 2015. The fastest-growing 3rd generation IIT is located in Yerpedu, Tirupati, and has a size of 539 acres, including a proposed research park. The curriculum has an emphasis on theoretical knowledge and practice-oriented laboratories. Courses are planned to nurture innovation, creativity, quality, teamwork, communication skills, ethics and societal interaction.

About the Programme

The Department of Humanities and Social Sciences, Indian Institute of Technology Tirupati, is excited to bring you the second edition of this highly acclaimed 5-Day workshop on "Research Methodology and Multivariate Data Analysis" from May 19 to 23, 2025.

In fact, the success and glowing reviews from our inaugural workshop conducted in May 2024 inspired us to bring it back for a second edition. The programme has been designed to provide participants with exposure to the fundamentals of the research process, identification of the research problem, literature review, selection of appropriate research design and various other phases of research. The 5-day workshop includes a detailed discussion on various tools and techniques for data analysis and hands-on sessions with statistical software.

About the Department

The Department of Humanities and Social Sciences at IIT Tirupati, established in 2015, offers a two-year post-graduate programme titled Master of Public Policy as well as PhD in various disciplines. The department is active in research areas of social and political philosophy, contemporary Indian thought, development economics, financial economics, climate change economics, environmental economics, natural resource management, behavioral economics, Indian theories of language and literature, conflict literature, urban planning, urban analytics, organizational leadership, sustainable HRM, decent work and work engagement, operations management, industrial engineering, operations research and supply chain management.

Programme Objectives

The main objective of this programme is to help participants develop research skills. To this end, the programme will help participants to:

- Identify and define a research problem
- Conduct a systematic literature review
- Select an appropriate research design and methodology
- Apply appropriate multivariate statistical techniques to address the research questions
- Understand the applications of various software and platforms
- Effectively present and report the results of research

Programme Contents

- Overview of Research Process
- Systematic Literature Review & Bibliometric Analysis
- Fundamentals of Data Analysis
- Multivariate Data Analysis Techniques
- MANOVA
- Exploratory and Confirmatory Factor Analysis
- Structural Equation Modeling
- Cluster Analysis
- Logistic Regression and Discriminant Analysis
- Conditional Process Analysis
- Research Ethics
- Academic Writing

Programme Fee & Registration Process

The programme fee is **Rs. 5000/-** per participant. The fee includes workshop materials, lunch and snacks for all five days. The participants will have to make their own arrangements for boarding and lodging. However, limited accommodation will be available on first-cum-first-serve basis on a nominal charge.

The fee shall be paid online via given Bank account details/UPI/QR code:

All participants are strongly advised to bring their **laptops** to actively engage in the hands-on sessions.

Account Name	Indian Institute of Technology Tirupati
Account Number	42225683319
Bank	State Bank of India
IFSC Code	SBIN0061587
Branch Name	Yerped - 61587
UPI	9493173679@sbi

UPI Payment Link

After paying the fee, the candidate should fill out the registration form and upload the payment receipt using this **link**.

Contact the workshop coordinators for details regarding group registration.

The deadline for registration is **10 May 2025**.

Programme Coordinators

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A group photo from the first edition of RMMDA workshop

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